

CLAIMS

I CLAIM:

1. A rolling storage rack system comprising:
a plurality of storage racks,
a plurality of guide tracks for guiding movement of the plurality of storage racks, and
each of said plurality of storage racks including
lower wheels for rolling in contact with a floor,
said lower wheels being vertically oriented,
upper wheels for rolling in the guide tracks, and
at least one guide bracket for controlling an amount of space between adjacent ones of said plurality of storage racks.
2. The rolling storage rack system as claimed in claim 1, wherein said at least one guide bracket includes at least one arm located spaced from the storage rack on which the at least one guide bracket is mounted.
3. The rolling storage rack system as claimed in claim 2, wherein said at least one arm projects into a space defined by said guide tracks for preventing tipping of the storage rack.

4. The rolling storage rack system as claimed in claim 3, wherein said guide tracks are U-shaped.

5. The rolling storage rack system as claimed in claim 4, wherein said at least one guide bracket is U-shaped.

6. The rolling storage rack system as claimed in claim 1, wherein said lower wheels are encased in a protective boot.

7. The rolling storage rack system as claimed in claim 1, wherein a plurality of tires are located on said plurality of storage racks.

8. The rolling storage rack system as claimed in claim 1, wherein the guide tracks are anchored at two fixed points located at opposite ends of the guide tracks.

9. The rolling storage rack system as claimed in claim 8, wherein the guide tracks are anchored on two fixed storage racks.

10. The rolling storage rack system as claimed in claim 1, wherein a shock absorber is located between the upper wheels and the storage racks.

11. A rolling storage rack system comprising:
a plurality of storage racks including movable storage racks and fixed storage racks,
a guide arrangement for guiding movement of the movable storage racks,
each of said movable storage racks including lower wheels for rolling in contact with a floor, said lower wheels being vertically oriented, and
at least one spacing element for controlling an amount of space between adjacent ones of said plurality of storage racks when a spacing element of one of the plurality of storage racks contacts a spacing element of an adjacent one of the plurality of storage racks.

12. The rolling storage rack system as claimed in claim 11, wherein said spacing element includes at least one arm located spaced from the storage rack on which the spacing element is mounted.

13. The rolling storage rack system as claimed in claim 12, wherein said spacing element projects into a space defined by guide rails of said guide arrangement for preventing tipping of the storage rack.

14. The rolling storage rack system as claimed in claim 13, wherein said guide rails are U-shaped.

15. The rolling storage rack system as claimed in claim 14, wherein said spacing element is U-shaped.

16. The rolling storage rack system as claimed in claim 11, wherein said lower wheels are encased in a protective boot.

17. The rolling storage rack system as claimed in claim 11, wherein a plurality of tires are located on said plurality of storage racks.

18. The rolling storage rack system as claimed in claim 11, wherein the guide arrangement is anchored to said fixed storage racks.

19. A rolling storage rack system comprising
a plurality of storage racks including movable storage racks, said movable storage racks being movable between fixed elements located at opposite sides of a group of the movable storage racks, the movable storage racks including lower wheels for rolling in contact with the floor,

a guide arrangement for guiding movement of the movable storage racks, and

at least one spacing element for controlling an amount of space between adjacent ones of the movable storage racks.

20. A rolling storage rack system as claimed in claim 19, wherein said guide arrangement extends between the fixed elements.

21. A rolling storage rack system as claimed in claim 20, wherein said guide arrangement includes a guide rail.

22. A rolling storage rack system as claimed in claim 20, wherein said guide arrangement includes a guide rod.

23. A rolling storage rack system as claimed in claim 22, wherein said guide rod cooperates with a guide sleeve mounted on the movable storage racks.

24. A rolling storage rack system as claimed in claim 23, wherein the guide sleeve is mounted on a plate, the plate forming the spacing element.

25. A rolling storage rack system as claimed in claim 21, wherein upper wheels mounted on the movable storage racks engage the guide rail.

26. A rolling storage rack system as claimed in claim 25, wherein said spacing element includes at least one arm located spaced from the storage rack on which the spacing element is mounted.

27. A rolling storage rack system as claimed in claim 25, wherein the spacing element projects into a space defined by the guide rail for presenting tipping of the storage rack.

28. A rolling storage rack system as claimed in claim 21, wherein the fixed elements are fixed storage racks.

29. A rolling storage rack system as claimed in claim 22, wherein the fixed elements are fixed storage racks.

30. A rolling storage rack system as claimed in claim 19, wherein a plurality of tires are located on said plurality of storage racks.